

CLAIMS

1. Method of positioning, in a can including a container (3) closed by a cover (14), a device (1) for automatically extracting a straw (2), of the type including a straw-supporting member (7) constituted by an elastically deformable retention arm (8) adapted to be tensioned by elastic deformation, said arm including a retention tube (10) for the straw, characterized in that it consists of tensioning said arm (8) by the direct or indirect effect of the cover during the coupling of said cover (14) to said device (1).

2. Method according to claim 1, characterized in that it includes the following preliminary steps:

- a. fixing the straw to the retention arm to form an intermediate subassembly (3), namely, the straw (2)-extraction device (1) subassembly;
- b. coupling of the intermediate subassembly (30) to the cover to form a closure subassembly (31);

3. Method according to claim 2, characterized in that it includes the following complementary steps:

- c. filling the container (3) with the desired beverage;
- d. positioning the closure subassembly in the container;
- e. crimping the cover (34) on the container (3).

4. Method according to any of the preceding claims, characterized in that it consists of tensioning the retention arm (8) by the effect of the cover on a projection (11) affixed to the arm.

5. Method according to one of claims 1-3, characterized in that it consists of tensioning the retention arm (8) by the effect of the cover on the straw (2) retained by the arm.

6. Device for extracting a straw adapted to implement the method according to any of the preceding claims, characterized in that it comprises a straw-supporting member (7) constituted by an elastically deformable retention arm (8), one of the ends of which is connected to a peripheral ring or annular ring (9), whereas the free end of the arm (8) includes means (10) for retaining the straw.

7. Device for extracting a straw adapted to implement the method according to the previous claim, characterized in that the means (10) for retaining the straw are constituted by a retaining tube portion (10).

8. Device for extracting a straw adapted to implement the method according to one of claims 6 or 7, characterized in that it is advantageously obtained in a single piece made of injected plastic material, whereas the annular ring (9) includes a succession of deformable lips (15) that are peripherally sandwiched during the crimping of the can between the cover (14), and more particularly its crimping groove (31) and the upper peripheral rim of the opening of the container.

9. Device for extracting a straw adapted to implement the method according to one of claims 6-8, characterized in that the retention arm (8) includes an actuation arm (18) adapted to be actuated and displaced by the cap (5) during the opening of the can.

10. Device for extracting a straw adapted to implement the method according to any of claims 6-9, characterized in that the elastic linkage of the retention arm (8) with the peripheral ring (9) is obtained by the succession of two elastically deformable zones: a first deformation zone (16) enabling the retention arm (8) to displace in horizontal pivoting about a vertical pivoting axis (XX'), and a second deformation zone (17), distinct from the first deformation zone (15), enabling the arm (8) to displace in vertical pivoting about a horizontal pivoting axis (YY').

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